

Patent claims

1. An apparatus for the forming of a strip, formable at increased temperature, in a continuous run on the surface of a rotating drum (1) which is to be heated and/or to be cooled in predetermined stationary regions (10, 11) characterized in that the drum (1) is mounted on a carrier body (5) heatable or coolable in the respective regions (10, 11) and at least in these regions (10, 11) is arranged heat-exchangeably with respect to its surface.
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- 10 2. The apparatus as claimed in claim 1, characterized in that devices (2) for the supply of a hot-plastic plastic extrusion (3) in the heatable region (10) are provided, the latter being followed by the coolable region (11).
- 15 3. The apparatus as claimed in claim 1 or 2, characterized in that the drum (1), at least in its regions (10, 11) to be heated or to be cooled, bears slidingly against the surface of the carrier body (5).
- 20 4. The apparatus as claimed in claim 3, characterized in that devices (62) for introducing a liquid between the surface of the carrier body (5) and the drum (1) are provided.
- 25 5. The apparatus as claimed in one of claims 1 to 4, characterized in that the surfaces of the carrier body (5) and of the drum (1) which face one another are essentially recess-free.
6. The apparatus as claimed in one of claims 1 to 4, characterized in that the surface of the carrier body (5) is equipped with devices for the hydrostatic and/or hydrodynamic mounting of the drum (1).
- 30 7. The apparatus as claimed in one of claims 1 to 6, characterized in that the circulation of heat transfer liquid is provided for the heating and/or cooling of the carrier body (5).
8. The apparatus as claimed in one of claims 1 to 6, characterized in that

electrical heating devices are provided in that region (10) of the carrier body (5) which is to be heated.

9. or 8, characterized in that the fluid layer or the hydrostatic bearing
5 liquid is formed by the heat transfer liquid and is derived from its circulation.

10. The apparatus as claimed in one of claims 4 to 9, characterized in that
zones of different hydrostatic bearing pressure are delimited from one another
on the surface of the carrier body (5) by means of sealing arrangements (60,
10 61) or throttle ledges (72).

11. The apparatus as claimed in claim 10, characterized in that the zones
of different hydrostatic bearing pressure are connected to separate ducts for
liquid supply and/or discharge (62, 64).

15 12. The apparatus as claimed in one of claims 1 to 11, characterized in
that the thin-walled drum (1) is firmly connected at each of its two edges to a
holding ring (30).

20 13. The apparatus as claimed in claim 12, characterized in that the holding
rings (30) have an extension surface (35) fitting into the inside diameter of the
drum (1) and an abutment collar (36), and a plurality of tension fingers (38)
distributed over the circumference and engaging into the edge of the drum are
provided.

25 14. The apparatus as claimed in one of claims 1 to 13, characterized in
that the carrier body (5) is formed by a hollow cylinder or a plurality of hollow-
cylinder segments (16) which is/are held between two flanges (14, 15).

30 15. The apparatus as claimed in claim 14, characterized in that the carrier
body (5) is formed by a plurality of hollow-cylinder segments which are
connected to one another by means of joints (83, 84).

16. The apparatus as claimed in claim 15, characterized in that the joints

are guided or held on the flanges (14, 15).

17. The apparatus as claimed in one of claims 1 to 16, characterized in that the carrier body (5) is angularly adjustable about its longitudinal axis.